



MarinTrust Standard V2

By-product Fishery Assessment *Herring (Clupea harengus) in ICES subareas 1, 2, 5, and divisions 4.a and 14.a*

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Herring (<i>Clupea harengus</i>)
	Geographical area:	FAO 27 northeast Atlantic Ocean
	Country of origin of the product:	Norway (flag state(s): Norway)
	Stock:	Herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a
Date	3 May 2023	
Report Code	NOR08	
Assessor	Matthew Jew	
Country of origin of the product - PASS	Norway (flag state(s): Norway)	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): Bodø Sildoljefabrikk, Egersund Sildoljefabrikk, Grøntvedt Nutri , Karmsund, Måløy Sildoljefabrikk, Prima Protein AS, Scanbio Ingredients AS, TripleNine Vedde AS			
Country: Norway			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Matthew Jew	Léa Lebechnech	0.5	Surveillance 1
Assessment Period	Up to May 2023		

Scope Details	
Main Species	Herring (<i>Clupea harengus</i>)
Stock	Herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a
Fishery Location	FAO 27 northeast Atlantic Ocean
Management Authority (Country/ State)	Norwegian Directorate of Fisheries
Gear Type(s)	2021 Estimates: Purse seine (48%) and pelagic trawl (52%)
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's determination
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination
<p>If any species is categorised as Endangered or Critically Endangered on IUCN’s Red List, or if it appears in the CITES appendices, it cannot be approved for use as Marin trust raw material. Herring (<i>Clupea harengus</i>) does not appear as Endangered or Critically Endangered on IUCN’s Red List, and does not appear in CITES appendices; therefore, <i>Clupea harengus</i> is eligible for approval for use as Marin trust by-product raw material.</p> <p>There is a long-term management strategy that was agreed on by the European Union, the Faroe Islands, Iceland, Norway, and Russian Federation in 2018. ICES has evaluated this strategy and determined it to be precautionary. ICES conducts regular stock assessments for herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a and defines two sets of reference points that align with the MSY and precautionary approaches. As there are regular stock assessments and reference points are defined, this stock is assessed under category C.</p> <p>Fishery removals are included in the stock assessment and it PASSES Clause C1.1. The stock is considered, in its most recent stock assessment, to have biomass above the limit reference point, it PASSES Clause C1.2.</p> <p>Therefore, herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The internal peer reviewer agrees with the assessor’s determination, who correctly classified and approved the stock of herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a under Category C. Fishery removals are included in the stock assessment and the stock is considered, in its most recent stock assessment, to have biomass above the limit reference point, so it PASSES Clauses C1.1 and C1.2.</p> <p>Therefore, herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products standards.</p>
Notes for On-site Auditor
N/A

Species Categorisation

NB: If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in CITES Appendix 1, it **cannot** be approved for use as a MarinTrust raw material.

IUCN Red list Category

By-product material from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for the following categories shall immediately fail the assessment;

- EXTINCT (E) AND EXTINCT IN THE WILD (EW)
- CRITICALLY ENDANGERED (CR) facing an extremely high risk of extinction in the wild.
- ENDANGERED (EN) facing a very high risk of extinction in the wild.

By-product material may be used from the following categories provided that all clauses in the MarinTrust standard are passed.

- VULNERABLE (VU) facing a high risk of extinction in the wild.
- NEAR THREATENED (NT) does not qualify for above now, but is close or is likely to qualify for, a threatened category in the near future.
- LEAST CONCERN (LC) Widespread and abundant.
- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

Table 3 Species Categorisation Table

Common name	Latin name	Stock	Management	Category	IUCN Red List Category ¹	CITES Appendix 1 ²
Herring	<i>Clupea harengus</i>	Herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a	Norwegian Directorate of Fisheries	C	LC	No

¹ <https://www.iucnredlist.org/species/155123/4717767>

² <https://cites.org/eng/app/appendices.php>

CATEGORY C SPECIES

In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

Clause C1 should be completed for each Category C species. If there are no Category C species in the fishery under assessment, this section can be deleted. Where a species fails this Clause, it should be assessed as a Category D species instead.

Species Name		Herring (<i>Clupea harengus</i>)	
C1	Category C Stock Status - Minimum Requirements		
	C1.1	Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.	Yes
	C1.2	The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.	Yes
Clause outcome:			PASS

C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

ICES advises that when the long-term management strategy agreed by the European Union, the Faroe Islands, Iceland, Norway, and the Russian Federation is applied, catches in 2023 should be no more than 511 171 tonnes.

This stock is assessed using a statistical assessment model (XSAM) that uses catches in the model and in the forecast and also includes uncertainty in catches and abundance indices. The data incorporated into this model is as follows: Assessment period 1988–2022: commercial catches-at-age (stock weight-at-age from surveys and, since 2009, from catch sampling). Three survey indices: Norwegian acoustic survey on spawning grounds in February/March (NASF [A7918]; 1988–1989, 1994–1996, 1998–2000, 2005–2008, 2015–2022); International Ecosystem Survey in the Nordic Seas (IESNS; A3675) covering the adult stock in the Nordic seas (1996–2022), and the juvenile stock in the Barents Sea (1991–2002, 2005–2007, 2009–2019, 2021). Maturity ogive variable by year-class strength. Natural mortalities are fixed values from historical analyses (age 2=0.9; ages greater than 2=0.15). Discards are not included as they are considered negligible.

Catches for this stock can be found in Figure 1 below:

Catches

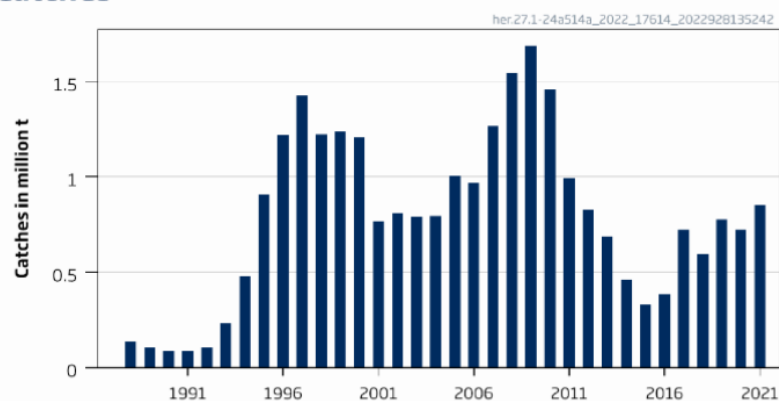


Figure 1. Long-term catches for herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a from 1988 to 2021.

Source: ICES 2022.

Therefore, fishery removals of the species in the fishery under assessment are included in the stock assessment process and therefore the stock PASSES clause C1.1

C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.

This stock has two sets of reference points that align with the MSY and precautionary approaches.

MSY approach		Precautionary approach	
MSY Btrigger	3,184,000 t	B _{lim}	2,500,000 t
F _{MSY}	0.157	B _{pa}	MSY Btrigger
		F _{lim}	0.291
		F _{pa}	F _{MSY}

Fishing pressure on the stock is above F_{MSY} and between F_{pa} and F_{lim}; spawning-stock size is above MSY Btrigger, B_{pa}, and B_{lim}.

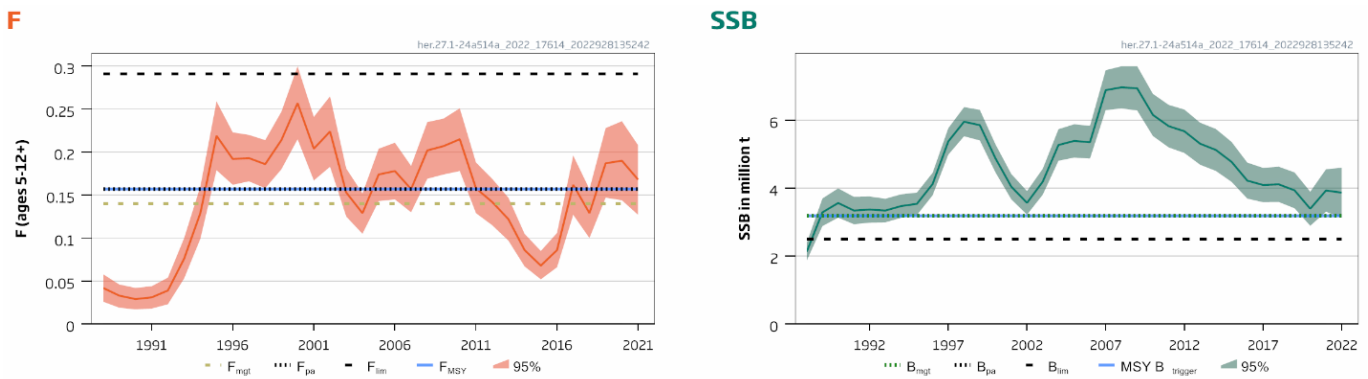


Figure 2. Herring in ICES subareas 1, 2, and 5, and divisions 4.a and 14.a summary of the stock assessment. The left panel shows the historical fishing pressure from 1988 to 2022 and the right panel show historical biomass over the same time period. Source: ICES 2022.

Therefore, the species is considered, in its most recent stock assessment, to have a biomass above the limit reference point and it PASSES clause C1.2.

References

ICES. 2022. Herring (*Clupea harengus*) in subareas 1, 2, 5 and divisions 4.a and 14.a, Norwegian spring-spawning herring (the Northeast Atlantic and Arctic Ocean). In Report of the ICES Advisory Committee, 2022. ICES Advice 2022, her.27.1-24a514a. <https://doi.org/10.17895/ices.advice.19772380>

Links

MarinTrust Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01